

<b>AICRP Scheme/Unit:</b> AICRP on Agrometeorology
<b>Location:</b> North Block, G.K.V.K. Bengaluru
<b>Year of Start:</b> 1983
<p><b>Mandate:</b></p> <ul style="list-style-type: none"> <li>❖ To characterize the Agro-climatic condition</li> <li>❖ To establish crop-weather relationships</li> <li>❖ To evaluate the different techniques of modification of crop micro-climate for improving the resource use efficiency and productivity of the crops.</li> <li>❖ To study the influence of weather on the incidence and spread of crop pests and diseases. To provide weather based agro-advisories using medium range weather forecast and ICT</li> <li>❖ To provide the weather data to update in the Agromet data bank at ICAR- CRIDA</li> </ul>
<p><b>Research Programmes:</b></p> <ul style="list-style-type: none"> <li>❖ Agro- Climatic Characterization of Southern Karnataka</li> <li>❖ Crop-weather relationship in finger millet, pigeon pea, groundnut and mango</li> <li>❖ Pest-Crop-weather relationship pigeon pea, groundnut and mango</li> <li>❖ Establishment of the data bank for ready reference and to connect to Agromet data base network.</li> <li>❖ Development of simple crop weather models suitable for establishing relationship between Agro-meteorological data and crop performance.</li> <li>❖ Validation and development of simulation crop weather model to enhance the crop production under different Agro-climatic zones.</li> <li>❖ Agromet advisory services (AAS)</li> </ul>
<p><b>Research Accomplishments :</b> (Varieties released /Technologies developed / Patents developed/ Commercialized etc...)</p> <ul style="list-style-type: none"> <li>❖ Agro-climatic atlas of Karnataka</li> <li>❖ Statistical analysis of 100 years rainfall data of Karnataka</li> <li>❖ Agro-climatology of finger millet in Karnataka</li> <li>❖ Weather based Agromet advisory for finger millet in Karnataka</li> <li>❖ Climatic characterisation of Gandhi Krishi Vignana Kendra (G.K.V.K)</li> <li>❖ Agro-climatic characterization of southern dry zone of Karnataka</li> <li>❖ Agro-climatic onset of monsoon for dry zones of southern Karnataka</li> <li>❖ Re-delineation of Agro-climatic zones of dry zones of southern Karnataka</li> <li>❖ Revised drought declaration using PASM and</li> <li>❖ Impact of El-Nino Sothern oscillation and Indian ocean dipole on rainfall over Karnataka: <i>a preliminary assessment</i></li> </ul>
<p><b>Awards / Recognitions:</b></p> <ul style="list-style-type: none"> <li>❖ Second best oral presentation award at National Conference on “Managing weather and climate risks in Agriculture (adapting crops to climate variability and uncertainty)” held on March 24-26, 2022 at SKUAST-Kashmir,</li> <li>❖ Shalimar, Srinagar</li> <li>❖ Best Centre Award during 2017-18 from ICAR-CRIDA</li> <li>❖ Best Agromet Field Unit (AMFU) Award-2019 from IMD, GoI.</li> <li>❖ National level best Climate Smart Farmer award from CRIDA, ICAR, Hyderabad, 2017-18 under AICRPAM-NICRA project Bengaluru</li> </ul>

**Facilities Available:**

- ❖ Surface Weather Observatory
- ❖ Automatic Weather Station
- ❖ Weather Data Base
- ❖ Lightning Detecting Sensor

**Other Activities:** Providing weather data for research and study purpose to different stakeholders

**Externally Funded Projects in Operation:**

No.	Project Title	Principal Investigator	Funding agency	Year of Start	Year of Completion	Significant Outcome
1	AICRPAM- NICRA National Initiative on Climate Resilient Agriculture	Dr. M.N. Thimmegowda	ICAR- New Delhi	2011	Long term	Partial budgeting of Agromet advisory services and non AAS farmers. Documentation of success stories related AAS
2	Gramin Krishi Sewa (GKMS: IAAS)	Dr. M.N. Thimmegowda	IMD- New Delhi	1996	Long term	District and Block level real time dissemination of weather based AAS
3	Forecasting of Agricultural output using Space, Agrometeorology and Land based observation (FASAL)	Dr. M.N. Thimmegowda	IMD- New Delhi	2011	Long term	District level crop yield forecasting for field crops by using statistical and simulation models
4	Lightning detecting sensor (LDS)	Dr. M.N. Thimmegowda	NRSC- ISRO Hyderabad	2021	2025	Recoding and networking of lightning

## Staff Profile:

### I. Scientific staff: A

	Name	Dr. M.N. THIMMEGOWDA
	Designation	Professor and Head
	Academic Qualification	Ph.D. (Agronomy)
	Area of Specialization	Natural Resource Management
	Date of joining duty at UAS, Bangalore	22-02-2007
	Date of Joining Scheme /Unit	06-09-2021
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### Scientific staff: B

	Name	Dr. MANJUNATHA, M.H.
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	Academic Qualification	Ph.D. (Agronomy)
	Area of Specialization	Agro-Meteorology, Rainfed Agriculture and Watershed Management
	Date of joining duty at UAS, Bangalore	22-12-2011
	Date of Joining Scheme/Unit	02-02-2018
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### II. Supporting staff:

	Name	D.N. NARASIMHAMURTHY
	Designation	Senior Field Assistant
	Academic Qualification	Bachelor of Arts.
	Date of joining duty at UAS, Bangalore	01-07-2013
	Date of Joining Scheme/Unit	16-06-2017
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